Section 02150
Traffic Control

PART 1 GENERAL

1.1 SCOPE

This section includes, but is not limited to, the requirements for the following activities:

A. Traffic Plan.

B. Construction and Radiological Control fencing.

C. Protection of the existing wells.

1.2 RELATED SECTIONS AND PLANS

A. Section 02050 - Surveying.

B. Section 02205 - Impacted Material Excavation.

C. Section 02275 - Erosion and Sediment Control.

D. Part 6 - Statement of Work.

E. Part 8 - Environmental Health and Safety, and Training Requirements.

1.3 REFERENCES

State of Ohio, Department of Transportation (ODOT): Construction and Material Specification, January, 1997.

1.4 SUBMITTALS

A. Submit a Traffic Plan within ten (10) calendar days from the Notice to Proceed for review and approval by the Construction Manager. The Traffic Plan shall include as a minimum:

1. Planned traffic routes for hauling excavated impacted material from the Southern Waste Units (SWUs), stockpiles and Retention Basins 1, 2 and 3 to the On-Site Disposal Facility (OSDF), the Lead Contaminated Soil Container Transfer Area and OU-1 Stockpile Area.
2. Access from the stockpiles to the haul roads.
3. Planned traffic routes within the SWUs.
4. Planned crossings of major utilities (such as gas line, drinking water line, power lines and groundwater line), and a plan to protect the existing utilities at the crossings. The crossing protection should be a minimum of a 1-inch thick steel plate or an equivalent alternative. Length and width of steel plate shall be as required to protect the existing utilities. Provide calculations to support equivalent alternatives to the 1-inch thick steel plate.
5. Crossings for pedestrians and equipment as shown on the Construction Drawings.
6. Maintenance and cleaning of haul road, planned traffic routes, pedestrian crossings and equipment crossings.
7. Description of impact to traffic control during long breaks in work.
8. Access control to and from radiological controlled areas and certified areas.
9. Submit detailed drawings depicting the location of a traffic signal system including the following;
    a. Site Plan showing equipment locations.
    b. List of equipment to be used as a part of the traffic signal system.
    c. Plan timing data for the signals.

B. Within ten (10) calendar days from the Notice to Proceed, submit a Dust Control Plan in accordance with Part 6 for approval by the Construction Manager.

1.5 HEALTH AND SAFETY REQUIREMENTS

Environmental Health and Safety, and Training requirements shall be as specified in Part 8.

1.6 DEFINITIONS

There are three types of material haul crossings identified: Type I, Type II and Type III:

A. Type I crossing occurs from an uncontrolled area to an uncontrolled area crossing a contaminated road.

B. Type II crossing occurs from a controlled area to a controlled area crossing a contaminated road.

C. Type III crossing occurs from an uncontrolled area to an uncontrolled area crossing an uncontrolled road.

PART 2 PRODUCTS

2.1 MATERIALS

A. Suppressant agent for dust control shall be pine sap emulsion as approved by the Construction Manager.

B. Materials for traffic control shall be as defined by the Traffic Plan and shall conform to ODOT specifications unless approved by the Construction Manager.

C. Construction fence shall be orange, high density polyethylene, four-foot height, opening size approximately 4 inches by 1/2 inch, minimum tensile strength of 2000 lbs/ft of width. Posts shall be steel "T" as indicated on the Construction Drawings.

D. Radiological control fence shall be as specified for construction fence, except the color shall be yellow.

E. Type I and II crossings: none

F. Type III crossing: Supply all equipment and materials necessary to install a 4-way traffic signal system. System shall be portable, with traffic actuations in two of the four directions.

PART 3 EXECUTION

3.1 GENERAL

A. Verify the existing conditions as specified in Section 02050.

B. Install erosion and sediment control measures and repair, as needed, the existing erosion and sediment controls prior to the start of site preparation and excavation activities in accordance with Section 02275.

3.2 DUST CONTROL

Dust control shall be as specified in Part 6 and the Dust Control Plan.

3.3 CONSTRUCTION AND RADIOLOGICAL CONTROL FENCING

A. Prior to initiating work activities examine existing construction fencing and radiological control fencing as shown on the Construction Drawings and as specified in Part 8.

B. Maintain and repair construction and radiological control fences until completion of the Contract.

C. Locate and install radiological control fence around the excavation of the Above WAC Material as directed by the Construction Manager.

3.4 TRAFFIC CONTROL

Control traffic in accordance with the approved Traffic Plan.

3.5 PROTECTION OF THE EXISTING WELLS

If damage to existing monitoring wells and/or extraction wells occurs, repairs and/or replacement will be completed by FDF at the Contractor's expense.

3.6 MATERIAL HAUL CROSSINGS

A. General

Contractor may be stopped at any crossing greater than 5 minutes at any crossing during an emergency event in which site Emergency Response Team or fire fighting force is activated, Utility Engineer is investigating, or a nearby utility is in need of immediate repair.

B. Type I and II Crossings

Contractor shall allow a 10 minute road delay per hour. This may consist of one (1) ten minute closure on the hour or two (2) 5 minute closures on the half hour as specified by the Construction Manager. The delay will occur simultaneously at all affected haul road crossings (e.g. crossings with the Impacted Material Haul Road) to allow for site traffic and pedestrians to cross.

C. Type III Crossings

Site traffic will yield to Contractor at Type III crossings.

3.7 EQUIPMENT PARKING

A. Clean Equipment Parking Area

1. Clean equipment parking area shall be within a support area.
2. No personal vehicles shall be allowed in the clean equipment parking area.

B. Contaminated Equipment Parking Area

1. The contaminated equipment parking area shall be kept free of standing water.
2. The contaminated equipment parking area shall be kept free of debris.
3. The contaminated equipment parking area shall be located as close as possible to the radiological control point access.
4. See Section 02205 for additional requirements for contaminated equipment.

END OF SECTION